

International ITEC Training Programme on “Application of ICTs in Agriculture”

(Two weeks Programme)

November 03-16, 2026

Rationale and justification for the ITEC programme at MANAGE, Hyderabad

India has shown tremendous growth in agriculture sector since its independence, its success is worth emulating to witness the same kind of development in other countries with similar socio-economic and geographical features. The agricultural extension in India has risen to the challenges over several years by addressing the issues in terms of capacity development and service delivery through the effective use of Information and Communication Technology (ICT) applications.

MANAGE, as an autonomous institution under the ministry of agriculture and farmers welfare has lead the ways in formulating the extension strategies and capacity development in India. These strengths of Indian agriculture extension system facilitated by MANAGE, research organisations and State Agriculture Universities calls for spreading the experiences for the benefit of policy makers, administrators, researchers and field level officials from other countries.

Besides sharing the India's experiences and competence through the ITEC programmes, on application of Information and Communication Technologies (ICTs) in Agriculture, we stand to gain from the mutual cooperation with other countries in terms of cross learning and their good will.

Aims and Learning Objectives

- To know the role and importance of the ICT application in agriculture.
- To understand the tools and modules of ICT applications in agricultural scenario for sustainable agriculture development.
- To orient the participants to latest ICT innovations used in agriculture in India other countries.
- To develop an action plan for operationalization of the concepts learnt during the training program.

Tentative Programme Schedule

(November 03-16, 2026)

Programme Coordinators: Dr. K. Krishna Reddy, Dr. G. Bhaskar and Dr D Kiranmayi

	Day - 1
9.30 am – 10:30am	Registration
10.30 am – 11:15	Inauguration
11.15 am	Tea Break
11.30 am	Icebreaking – Interactive Session
	Pre-Training Test
	Experience Sharing : ICT in Agriculture – Gap Analysis on ICT infrastructure, Usage and Capacities
01.00 pm	Lunch
02.00 pm	Orientation on Programme Overview and Programme Designing
03.30 pm	Tea Break
03.45 pm	Over view of Digital Agriculture
05:15 pm	Close
	Day- 2
09:30 – 11:15 am	Digital India initiative – National e-Governance Plan in Agriculture (NeGP-A)
11.15 am	Tea Break
11.30 am	Farmers' Portal: Demonstration and discussions on Implementation Plan – Issues related to content management, Institutional Collaboration / Linkages and Capacities.
01.00 pm	Lunch
02.00 pm	VISTAAR Project – A Government of India initiative
03.30 pm	Tea Break
03.45 pm	Introduction to CABI and its digital tools interventions
05:15 pm	Close

	Day -3
09:30 – 11:15 am	Indian Initiatives - National Soil Health Card, National Crop Insurance and Crop Cutting Experiments [Discussion]
11.15 am	Tea Break
11.30 am	Indian Initiatives – Work flow systems: Farm Mechanization, Seed distribution, Fertilizer distribution etc. and [Discussion]
01.00 pm	Lunch
02.00 pm	Farmers Call Center (FCC) : Concept and Services
03.30 pm	Tea Break
03.45 pm	Farmers Call Center: Implementation Strategies - Discussions Visit to Farmers Call Center
05:15 pm	Close
	Day - 4
09:30 – 11:15 am	Overview of Artificial Intelligence (AI) and its applications in Agriculture
11.15 am	Tea Break
11.30 am	Importance of Big Data and its application in Agriculture
01.00 pm	Lunch
02.00 pm	Artificial Intelligence (AI) based smart Agriculture for sustainable development
03.30 pm	Tea Break
03.45 pm	AI based application: PLANTIX
05:15 pm	Close
	Day - 5
09:30 – 11:15 am	Mobile based eExtension services: Concept of SMS Alerts service to farmers, SMS Gateway, SMS Application Model and Cases (IFFCO Voice message services)
11.15 am	Tea Break
11.30 am	Digital Advisory Services: NICE application
01.00 pm	Lunch
02.00 pm	Mobile apps in Agriculture
03.30 pm	Tea Break
03.45 pm	Mobile based eExtension services: Implementation strategies

	of mKisan portal and services - Discussions
05:15 pm	Close
	Day - 6
09:30 – 11:15 am	Linking Farmer to Markets: Demonstration of Indian Market Information System - Agricultural Marketing Network AGMARKNET and - eNAM
11.15 am	Tea Break
11.30 am	Linking Farmer to Markets: Case on eChoupal – an initiative of ITC eChoupal
01.00 pm	Lunch
02.00 pm	Visit to APMC Market
03.30 pm	Tea Break
03.45 pm	Visit to APMC Market
05:15 pm	Close
	Day - 7
	Study Tour
	Day - 8
09:30 – 11:15 am	A case Rice Knowledge Management Portal – An initiative of IRR.
11.15 am	Tea Break
11.30 am	Use of Social Media in Agriculture: Demonstration of SM tools and Case presentation
01.00 pm	Lunch
02.00 pm	Peoples Media for Sharing Agricultural Knowledge: Community Radios
03.30 pm	Tea Break
03.45 pm	Role of Expert Systems in Agriculture: Concept and Case presentation
05:15 pm	Close
	Day - 9
09:30 – 11:15 am	Introduction to Internet of Things (IoT)
11.15 am	Tea Break
11.30 am	IoT Examples and Case studies
01.00 pm	Lunch

02.00 pm	Block chain technologies in Agriculture
03.30 pm	Tea Break
03.45 pm	Use of Geo-Informatics and Sensor based technologies in precision farming
05:15 pm	Close
	Day-10
09:30 – 11:15 am	Applications of Drones in Modern Agriculture practices and SOPs for use of Drone Applications
11.15 am	Tea Break
11.30 am	Drone Applications: Technology, types of drones, components and drones for Agriculture
01.00 pm	Lunch
02.00 pm	Print Media- Salient features and effective designing tools and techniques
03.30 pm	Tea Break
03.45 pm	Basics of preparation of video documentaries, editing etc.
05:15 pm	Close
	Day-11
09:30 – 11:15 am	ICT Initiatives of ICRISAT – Visit to ICRISAT
11.15 am	Tea Break
11.30 am	ICT Initiatives of ICRISAT – Visit to ICRISAT
01.00 pm	Lunch
02.00 pm	ICT Initiatives of ICRISAT – Visit to ICRISAT
03.30 pm	Tea Break
05:15 pm	ICT Initiatives of ICRISAT – Visit to ICRISAT
	Day-12
09:30 – 11:15 am	Application of Remote Sensing and GIS in Agriculture
11.15 am	Tea Break
11.30 am	Designing of Database Management for Programme Implementation
01.00 pm	Lunch
02.00 pm	ICT based agro-advisory services – A case on eSagu, IIIT, Hyderabad
03.30 pm	Tea Break

03.45 pm	ICT based Weather based agro-advisory services.
05:15 pm	Close
	Day-13
	Study Tour
	Day-14
09:30 – 11:15 am	BACK AT WORK PLAN
11.15 am	Tea Break
11.30 am	BACK AT WORK PLAN
01.00 pm	Lunch
02.00 pm	Post-Training Test Review and Feedback of the Training Programme
03.30 pm	Tea Break
03.45 pm	Valedictory
5:30 pm	Close

Expected learning outcomes from the course

- Enhanced knowledge and understanding of participants about India's experience in use of ICT application in agriculture.
- Improved practical knowledge of participants on innovative and emerging trends of ICT applications in agriculture.
- Help in making effective extension strategies for using the ICT initiatives in sustainable agriculture development.

Eligibility Conditions of the participants

1. Reasonable level of experience in Public/ Private/ Civil Societies in Agriculture and allied sectors in the training theme area.
2. Applicant shall possess physical and mental skills and abilities for successfully completing the program.
3. Working knowledge of English is mandatory to understand the training content on sustainable agriculture development.

Additional details for uploading on ITEC portal:

Educational qualifications of candidates	Graduates and Post graduates in agricultural science and allied sectors
Work experience (required) if any	Working experience in the field of agriculture and rural development for minimum 5 years is desired
Minimum age	30 years
Maximum age	50 years
Target Group (level of participants, target ministeries or deptt., etc.)	Middle level Officers from Department of Agriculture, Non-Governmental Organisations, Farmer producer Company or Universities working in Agriculture sciences
Number of days of local trips	5 (Tentative)
Number of days for outstation trips	0
Number of nights for outstation trips	0
Places to be visited	Hyderabad, Golkonda, RFC
Mode of transport	AC Bus/ AC Train
Transportation charges (approx.)	50,000/- per batch
Accommodation charges, if hotel is required to be hired	NA
Entry ticket charges	4500 per candidate

Course Director**Dr. K. Krishna Reddy**

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